UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/580,049	05/19/2006	Kazumi Ogawa	KITA.0023	7514	
38327 REED SMITH	7590 05/09/200 LLP	EXAMINER			
3110 FAIRVIE	W PARK DRIVE, SUI	CHANG, CHING			
FALLS CHURO	_Π, VA 22042	ART UNIT	PAPER NUMBER		
		3748			
		MAIL DATE	DELIVERY MODE		
			05/09/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	tion No. Applicant(s)						
		10/580,049		OGAWA ET AL.					
			Examiner		Art Unit				
			CHING CHA	NG	3748				
Period fo	The MAILING DATE of this commur or Reply	nication appe	ears on the d	over sheet with the c	orrespondence ac	ldress			
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR THE VER IS LONGER, FROM THE IN THE INSIDE OF THE PROPERTY OF THE INSIDE	MAILING DA s of 37 CFR 1.136 munication. tatutory period will y will, by statute, o	TE OF THIS  6(a). In no event  Il apply and will e  cause the applica	S COMMUNICATION, however, may a reply be tin expire SIX (6) MONTHS from ation to become ABANDONE	<b>J.</b> nely filed the mailing date of this of (35 U.S.C. § 133).				
Status									
1) 又	Responsive to communication(s) file	ed on 19 <i>Ma</i>	ov 2006						
· ·	Responsive to communication(s) filed on <u>19 May 2006</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.								
3)	Since this application is in condition	<i>′</i> —			secution as to the	e merits is			
٥,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🛛	Claim(s) 1-5 is/are pending in the a	pplication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	✓ Claim(s) <u>4-5</u> is/are allowed.								
· · · · · · · · · · · · · · · · · · ·	⊠ Claim(s) <u>1 and 2</u> is/are rejected.								
· · · · ·	Claim(s) <u>3</u> is/are objected to.								
•	Claim(s) are subject to restri	ction and/or	election rec	uirement.					
Applicati	on Papers								
9)□	The specification is objected to by the	ne Examiner.							
•	The drawing(s) filed on is/are			objected to by the I	Examiner.				
,	- · ·	•	-						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2)  Notic 3)  Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>See Continuation Sheet</u> .	PTO-948)	_	Interview Summary Paper No(s)/Mail Da Da Notice of Informal P Da Other:	nte				

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :5/19/06, 8/15/06, 10/23/06, 3/5/07, 3/20/07.

Application/Control Number: 10/580,049 Page 2

Art Unit: 3748

## **DETAILED ACTION**

This Office acknowledges the Preliminary Amendment filed on 5/19/06.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawaraguchi (JP '719).

Kawaraguchi discloses a valve opening/closing timing controlling apparatus, comprising: a housing member (12) rotatable together with a drive member for transmitting a drive force; a rotor member (17) rotatably assembled with the housing member, a vane portion (17a-17d) of the rotor member forming, within said housing member, a phase-advanced oil chamber (56) and a phase-lagged oil chamber (52), the rotor member being rotatable together with a cam shaft; a torsion coil spring (27) for urging the rotor member relative to the housing member in a phase advancing direction; and a hydraulic circuit for controlling feeding/discharging of work oil to or from said phase-advanced oil chamber or said phase-lagged oil chamber; wherein said torsion coil spring has one end thereof fixed to said housing member and the other end thereof

Application/Control Number: 10/580,049 Page 3

Art Unit: 3748

fixed to a projection (26) provided on said rotor member, the projection projecting in a rotational axis direction of said rotor member; the other end of the torsion coil spring is retained in a retaining groove defined in said projection of the rotor member.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Mizutani et al. (US Patent 6,405,695).

Mizutani discloses a valve opening/closing timing controlling apparatus, comprising: a housing member (7) rotatable together with a drive member for transmitting a drive force; a rotor member (4) rotatably assembled with the housing member, a vane portion (4a-4c) of the rotor member forming, within said housing member, a phase-advanced oil chamber (83-85) and a phase-lagged oil chamber (80-82), the rotor member being rotatable together with a cam shaft; a torsion coil spring (60) for urging the rotor member relative to the housing member in a phase advancing direction; and a hydraulic circuit for controlling feeding/discharging of work oil to or from said phase-advanced oil chamber or said phase-lagged oil chamber; wherein said torsion coil spring has one end thereof fixed to said housing member and the other end thereof fixed to a projection (44) provided on said rotor member, the projection projecting in a rotational axis direction of said rotor member.

4. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Takahashi et al. (US Patent 6,758,178).

Takahashi discloses a valve opening/closing timing controlling apparatus, comprising: a housing member (2) rotatable together with a drive member for transmitting a drive force; a rotor member (7) rotatably assembled with the housing

Art Unit: 3748

member, a vane portion (8) of the rotor member forming, within said housing member, a phase-advanced oil chamber (5a) and a phase-lagged oil chamber (5b), the rotor member being rotatable together with a cam shaft; a torsion coil spring (15) for urging the rotor member relative to the housing member in a phase advancing direction; and a hydraulic circuit for controlling feeding/discharging of work oil to or from said phase-advanced oil chamber or said phase-lagged oil chamber; wherein said torsion coil spring has one end thereof fixed to said housing member and the other end thereof fixed to a projection (17; 17a) provided on said rotor member, the projection projecting in a rotational axis direction of said rotor member; the other end of the torsion coil spring is retained in a retaining groove (19) defined in said projection of the rotor member.

## Allowable Subject Matter

- 5. Claims 4-5 are allowed.
- 6. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHING CHANG whose telephone number is (571)272-4857. The examiner can normally be reached on M-Th, 7:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/580,049 Page 5

Art Unit: 3748

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ching Chang/ Primary Examiner, Art Unit 3748